

SDG&E Planning Area Forecast

Staff Presentation
June 30, 2005



CED 2006 Forecast Differences

- **Small energy forecast differences**
- **Peak is higher due to adjustment for normal weather**
- **Growth rates are essentially the same as CED 2003**
- **Per capita Energy and Peak increase slightly over the forecast**
- **Peak load factor is constant**



SDG&E Planning Area Forecast Results

	Consumption (GWH)			Peak (MW)		
	CED 2003	CED 2006	%difference	CED 2003	CED 2006	%difference
1990	14,798	14,926	0.87%	2,780	2,961	6.51%
2000	18,791	19,295	2.68%	3,540	3,472	-1.91%
2003	18,663	18,689	0.14%	3,806	3,921	3.03%
2008	20,847	20,820	-0.13%	4,223	4,350	3.01%
2013	22,518	22,426	-0.41%	4,530	4,686	3.45%
2016	n/a	23,355		n/a	4,879	
Annual Average Growth Rates						
1990-2000	2.42%	2.60%		2.44%	1.60%	
2000-2003	-0.23%	-1.06%		2.45%	4.14%	
2003-2008	2.24%	2.18%		2.10%	2.10%	
2003-2013	1.90%	1.84%		1.76%	1.80%	
Historic values are shaded						



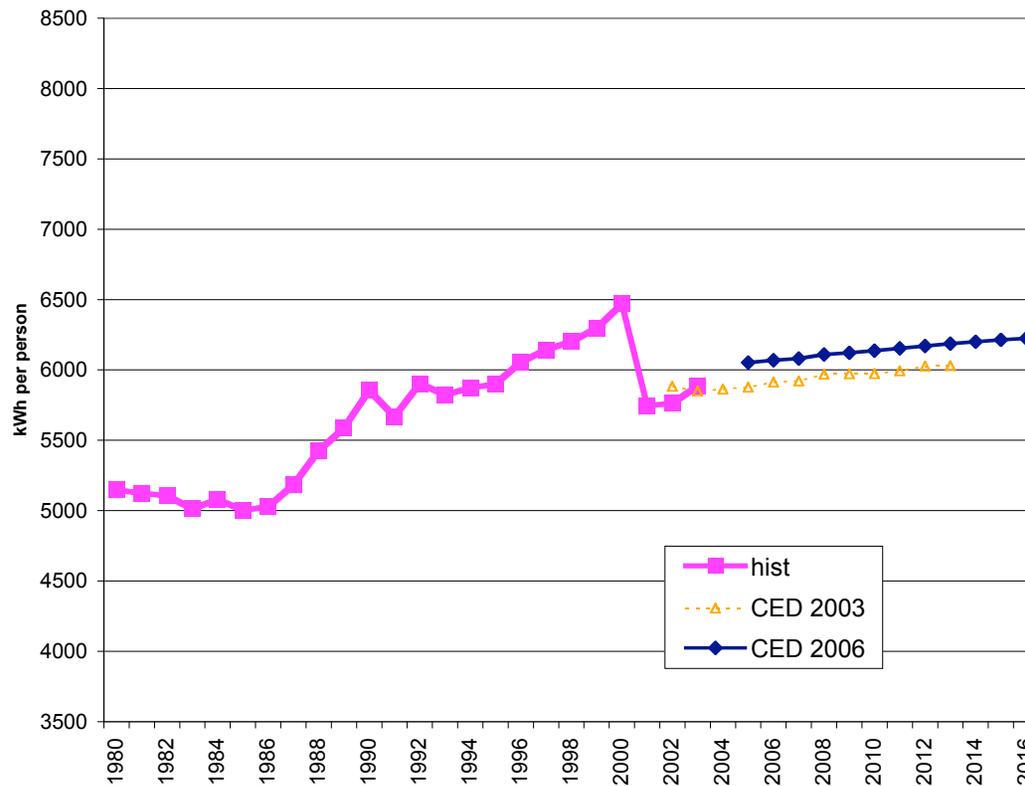
SDG&E Planning Area Forecast



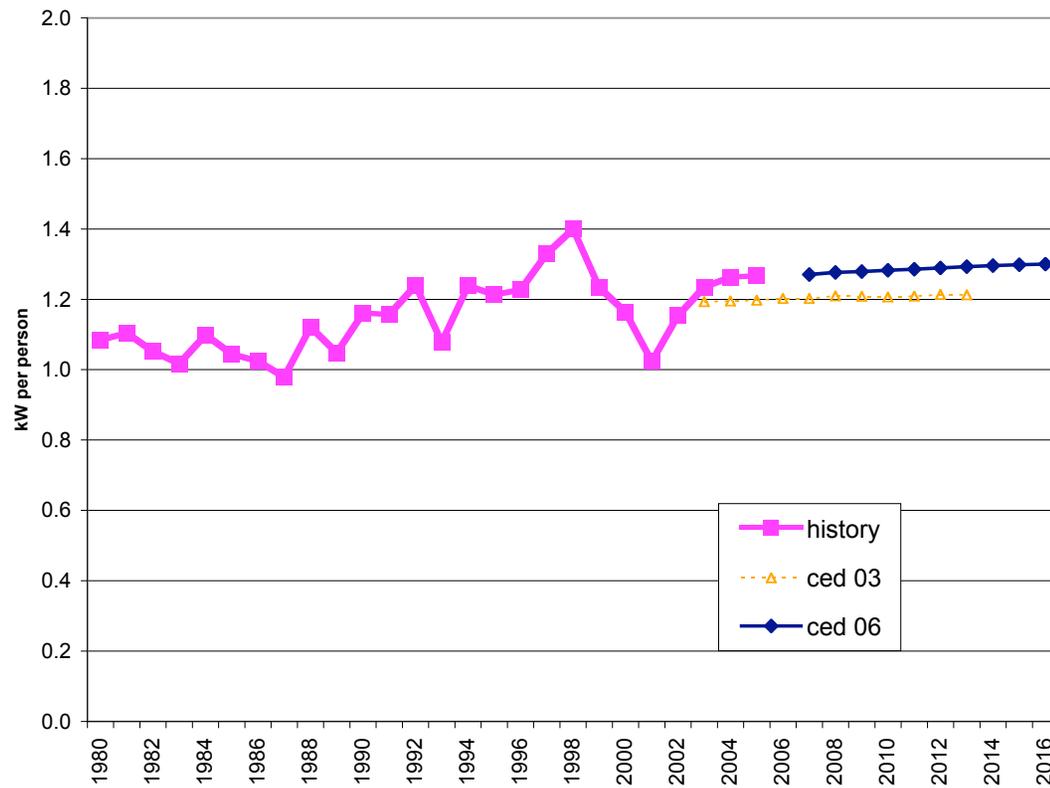
SDG&E Planning Area Peak Forecast



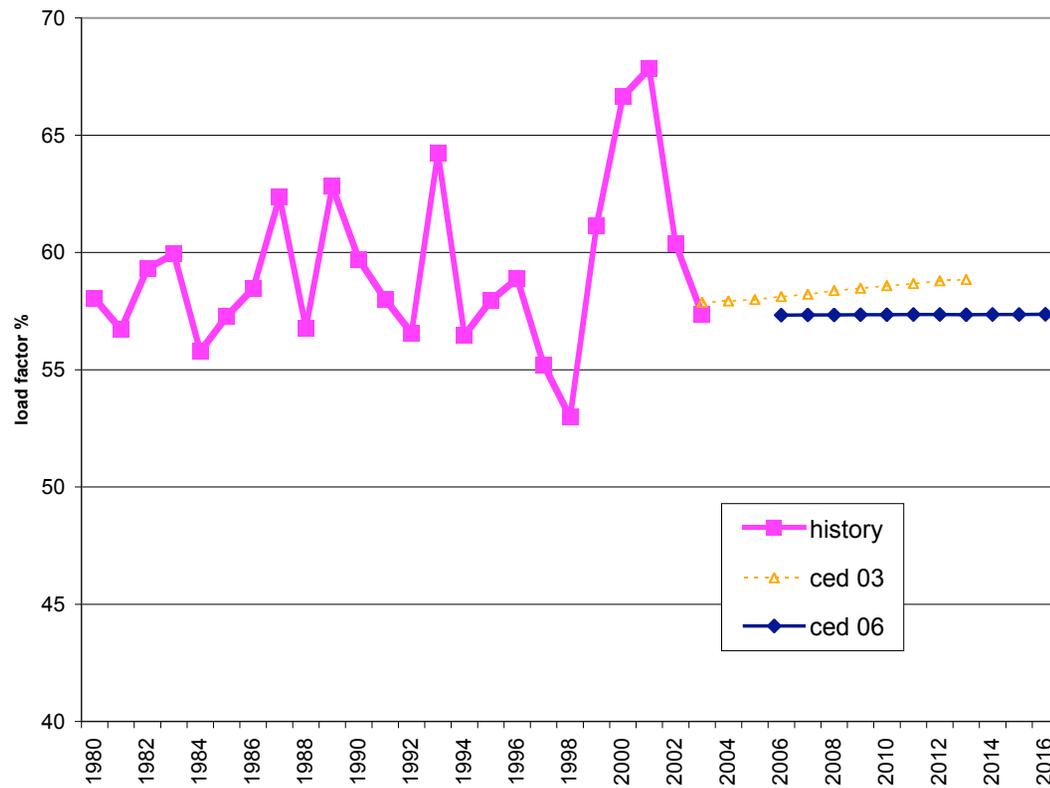
SDG&E per Capita Consumption



SDG&E per Capita Peak



SDG&E Planning Area Load Factor

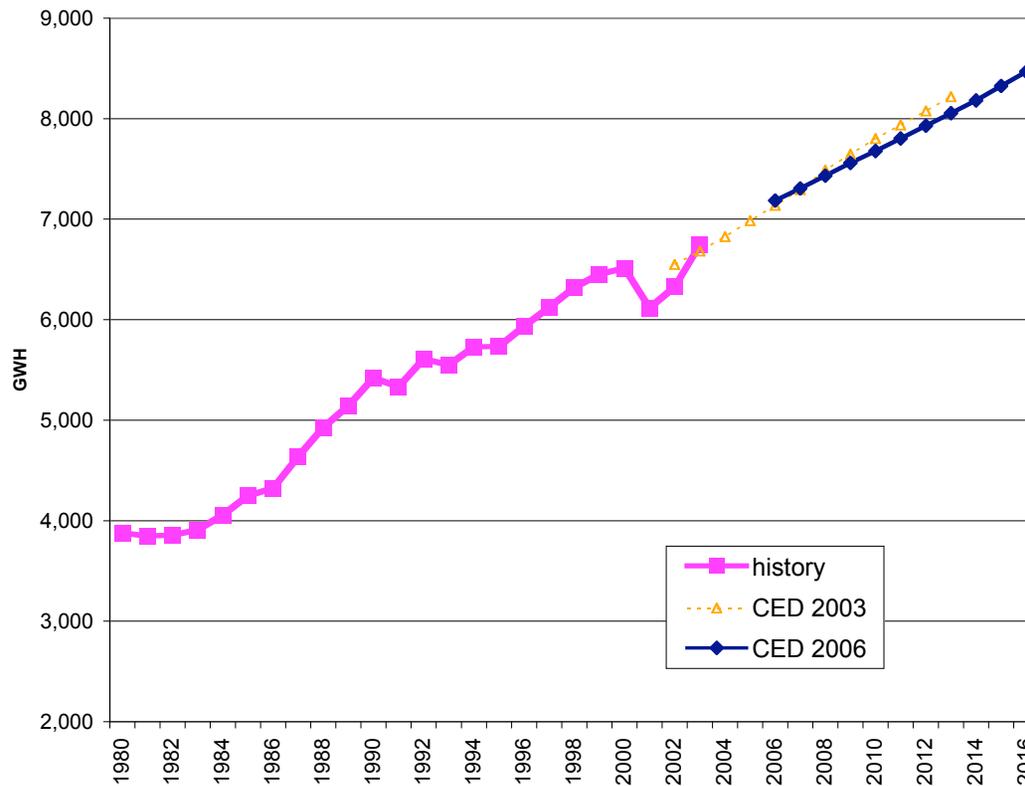


Residential

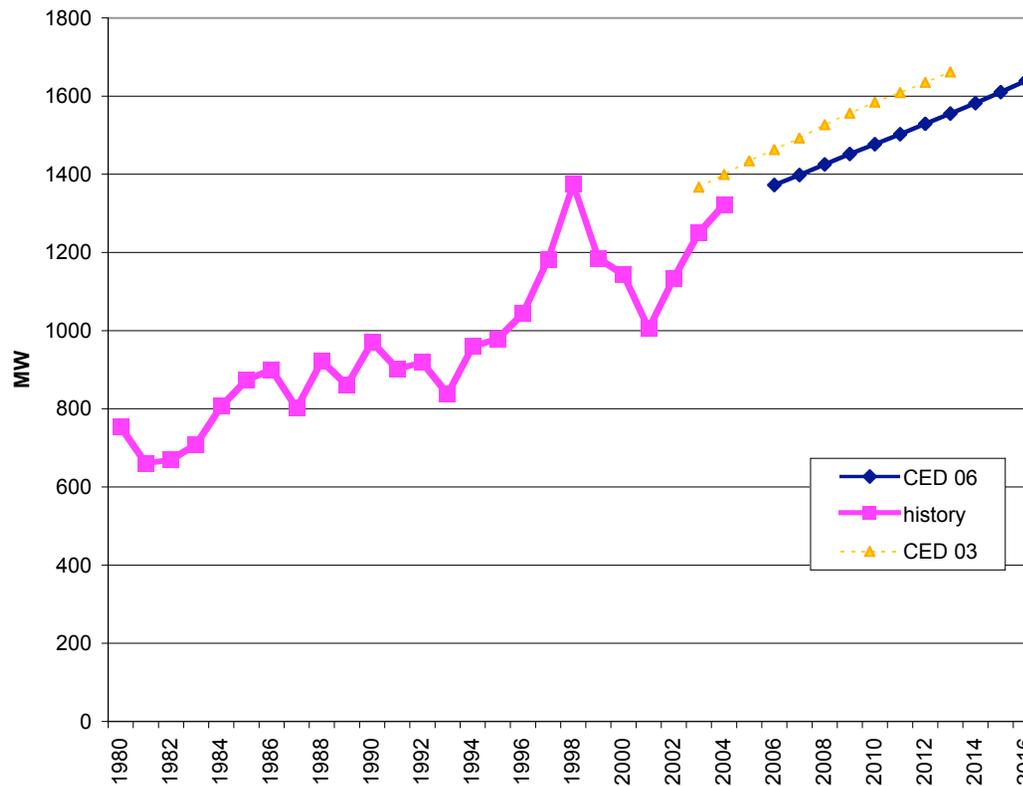
- **Residential growth is slightly lower due to economic and demographic factors**
- **Residential peak is lower due to new sector load calibration**
- **Lower population and person per household forecast result in fewer households**
- **Household income is lower in long term**



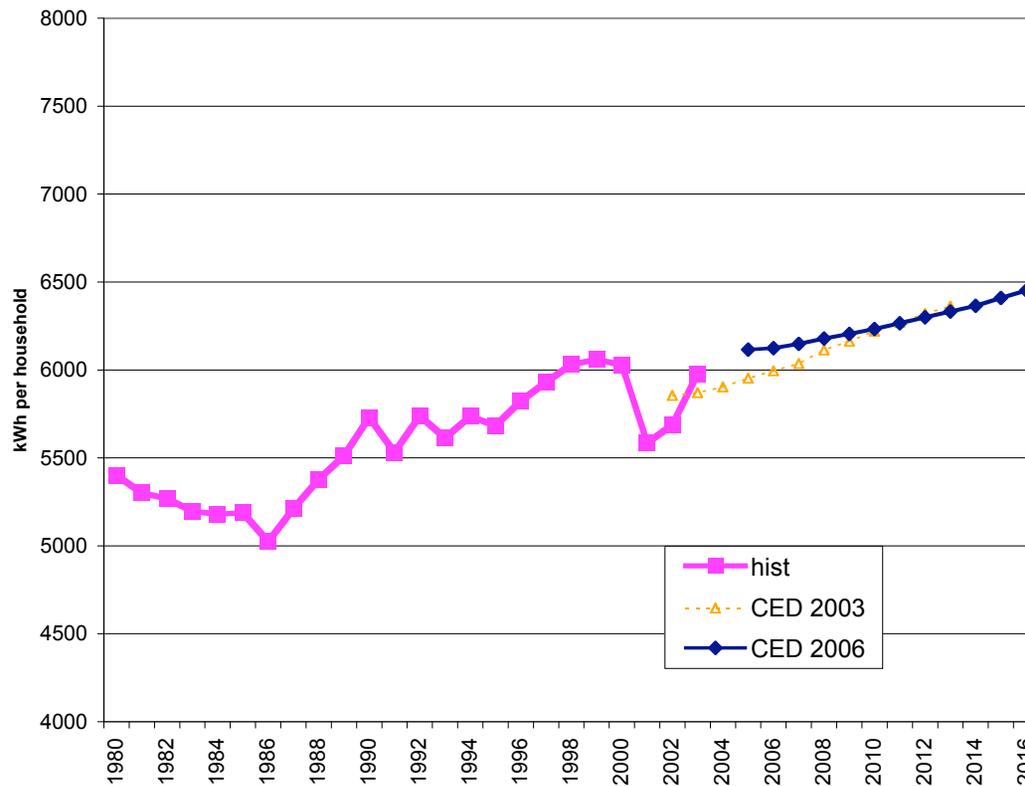
SDG&E Planning Area Residential Consumption



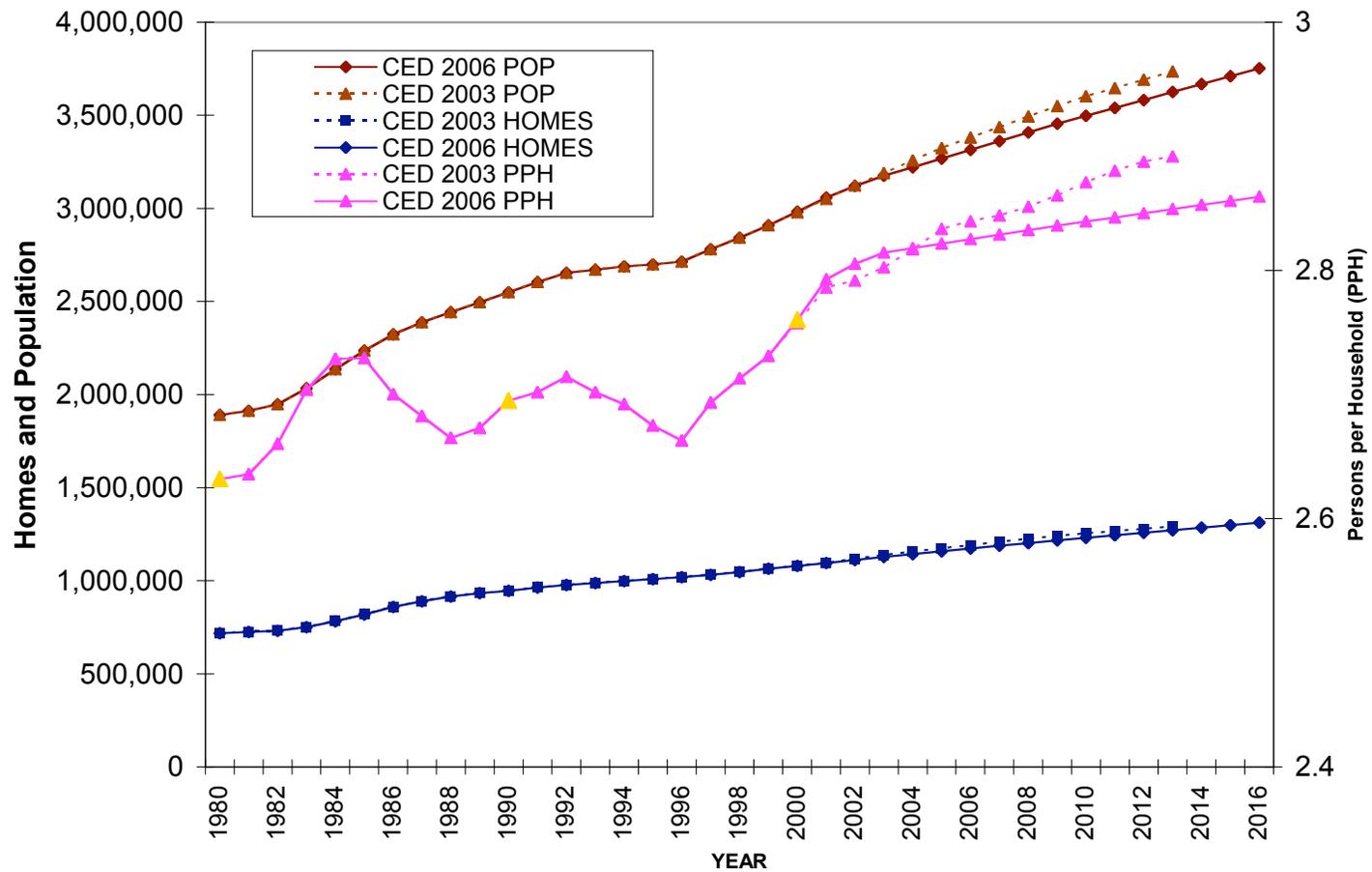
SDG&E Planning Area Residential Peak



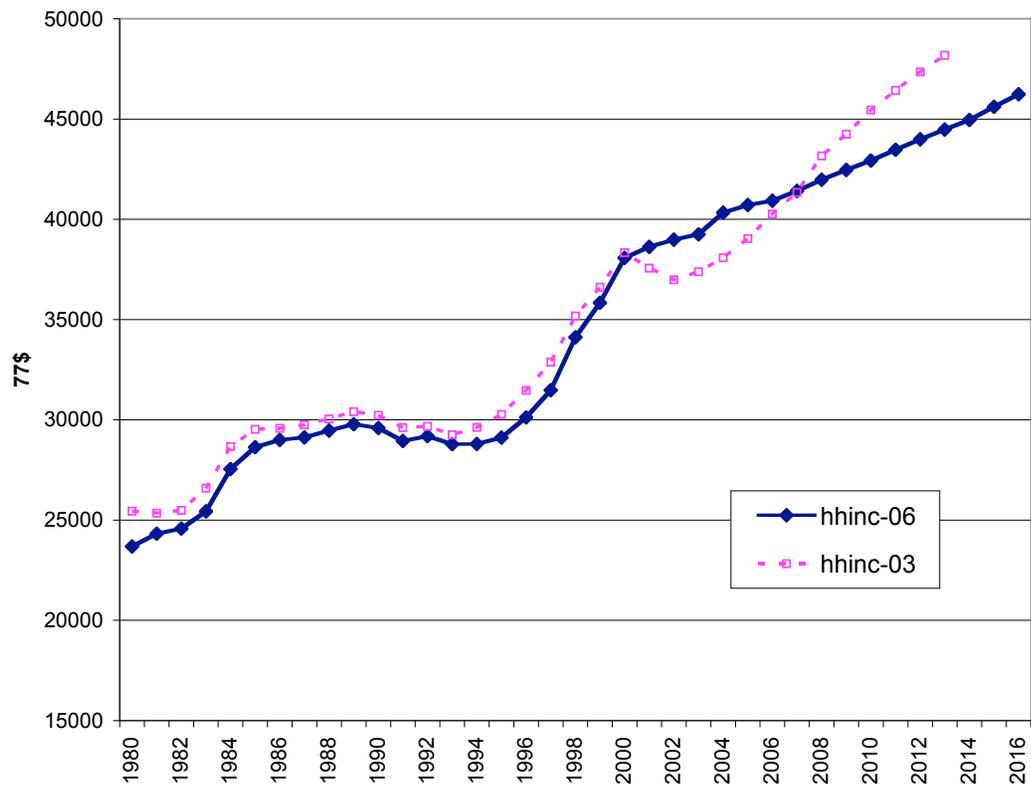
SDG&E Planning Area Use per Household



SDG&E Planning Area Demographic Inputs



SDG&E Planning Area Household Income

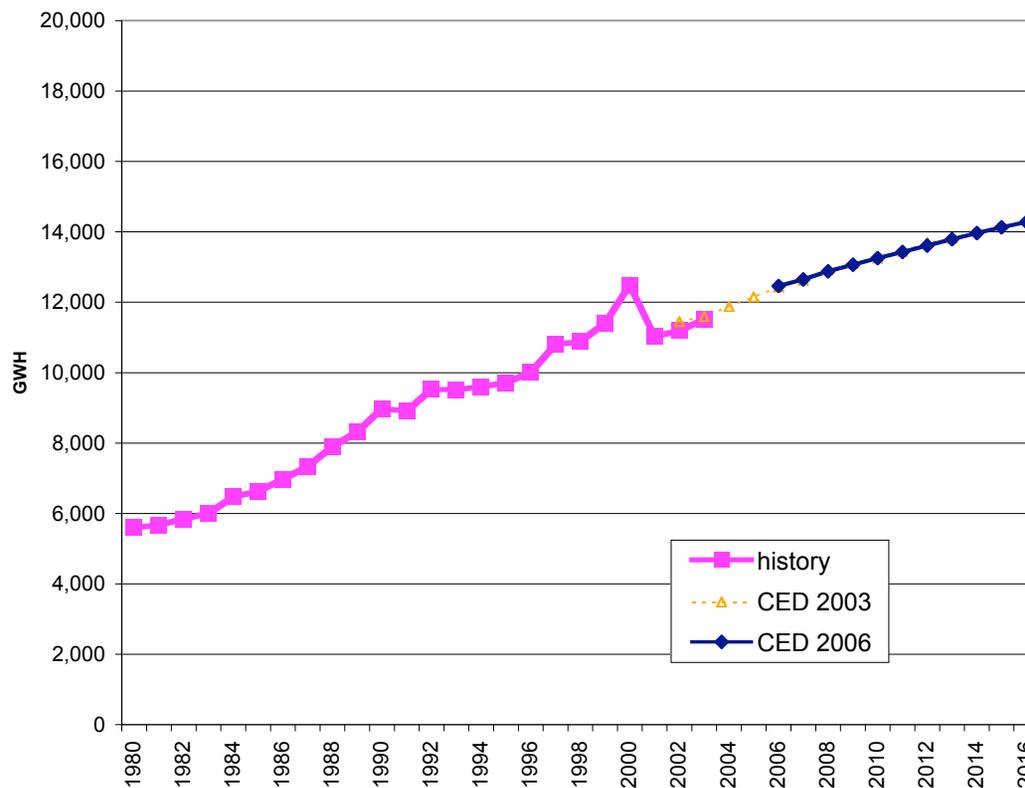


Non-Residential Sectors

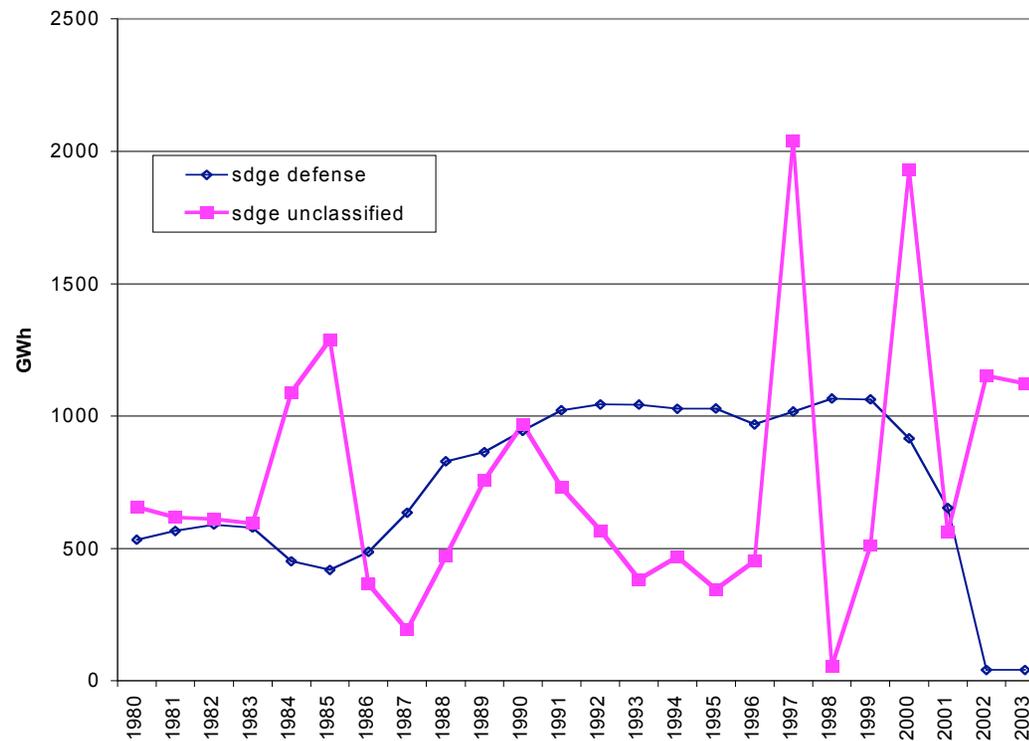
- **Combined non-residential forecasts are similar**
- **Increase in unclassified consumption corresponds to reduction in defense consumption**
- **Sector peaks start from different levels due to revised sector calibration**



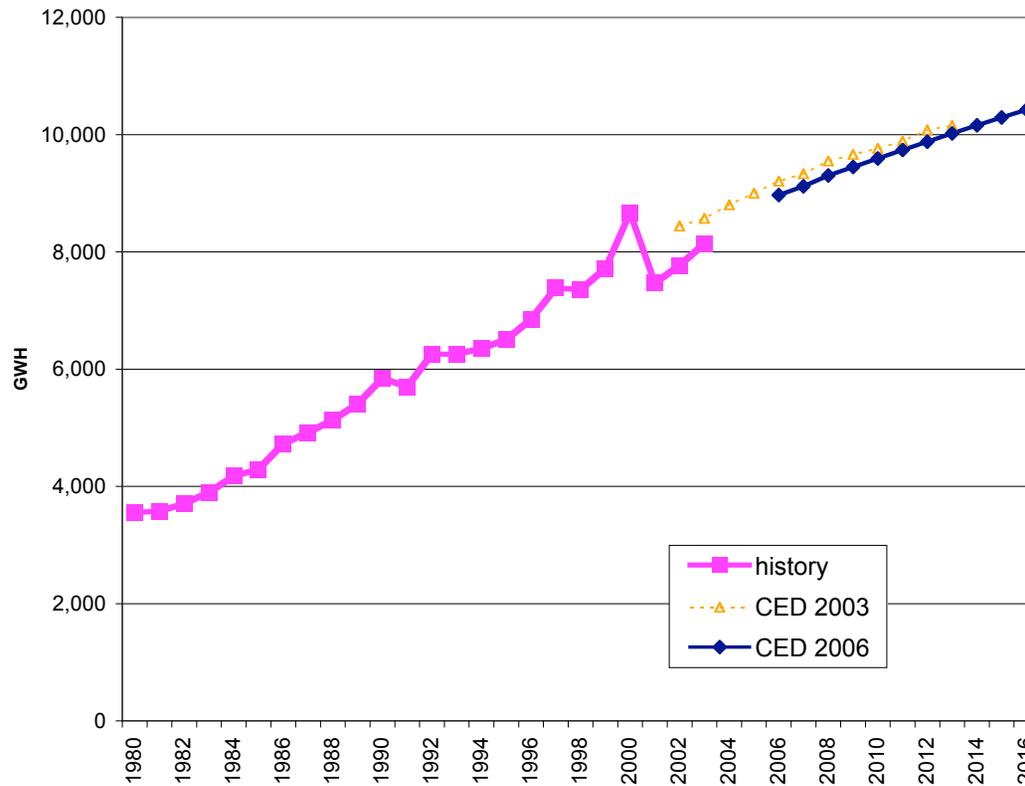
SDG&E Planning Area Non-residential Consumption



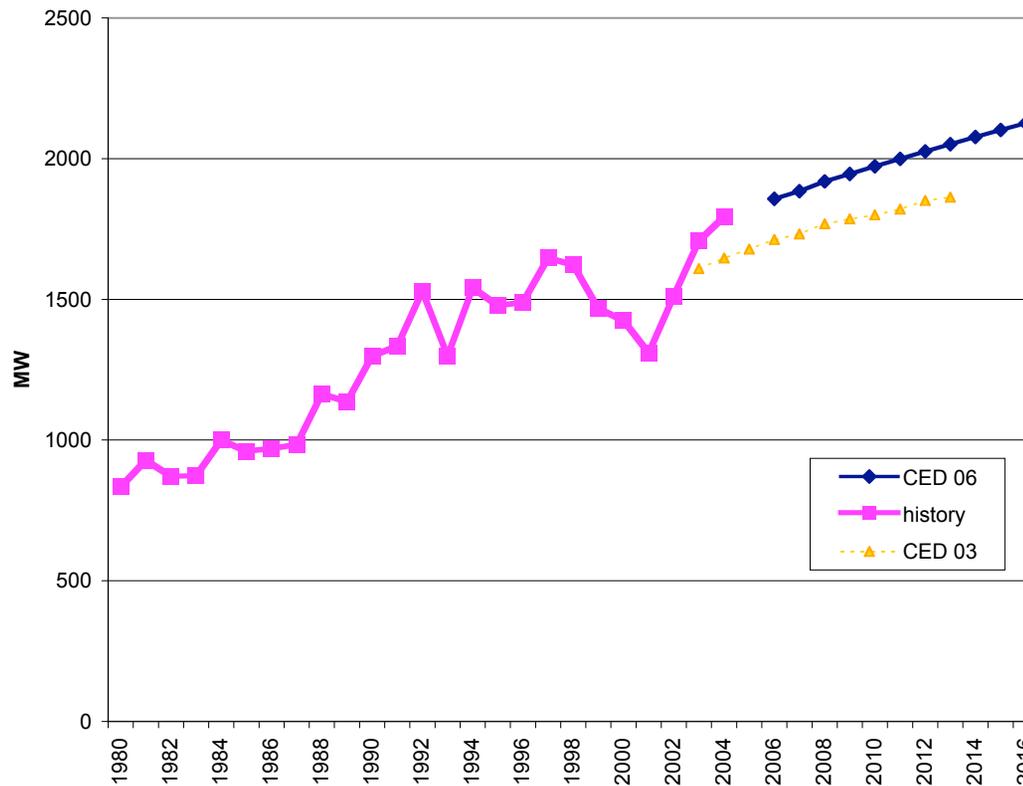
SDG&E Planning Area Unclassified & Defense Industry Consumption



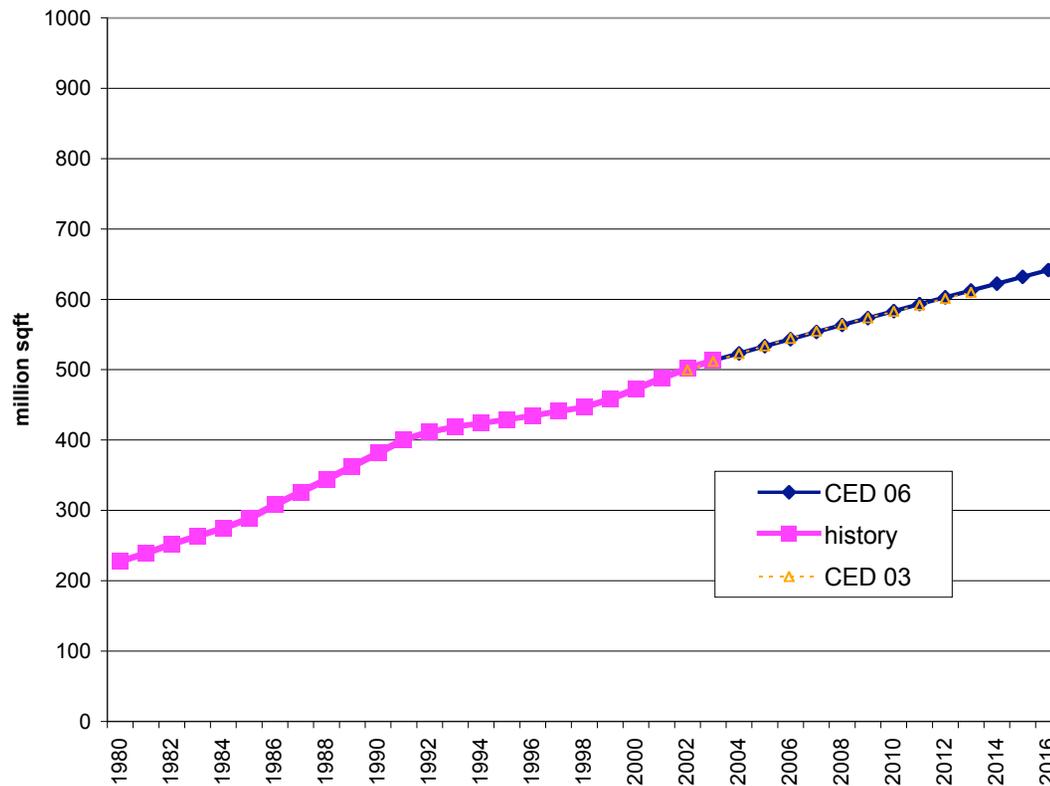
SDG&E Planning Area Commercial Building Consumption



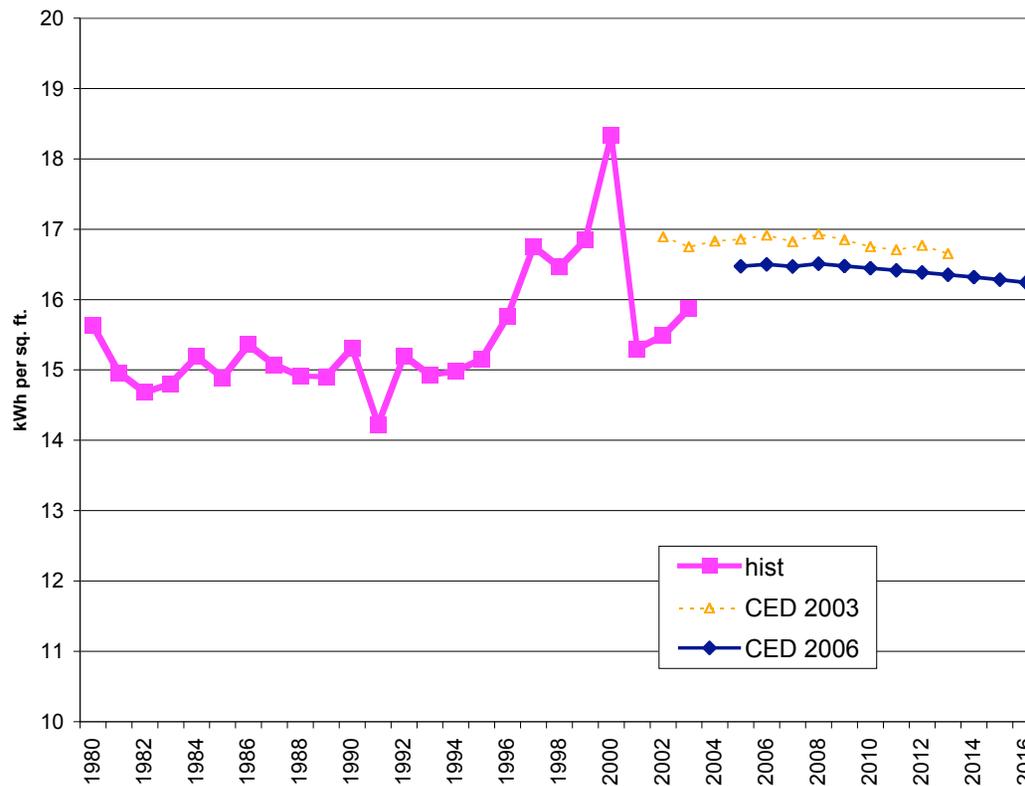
SDG&E Planning Area Commercial Building Peak



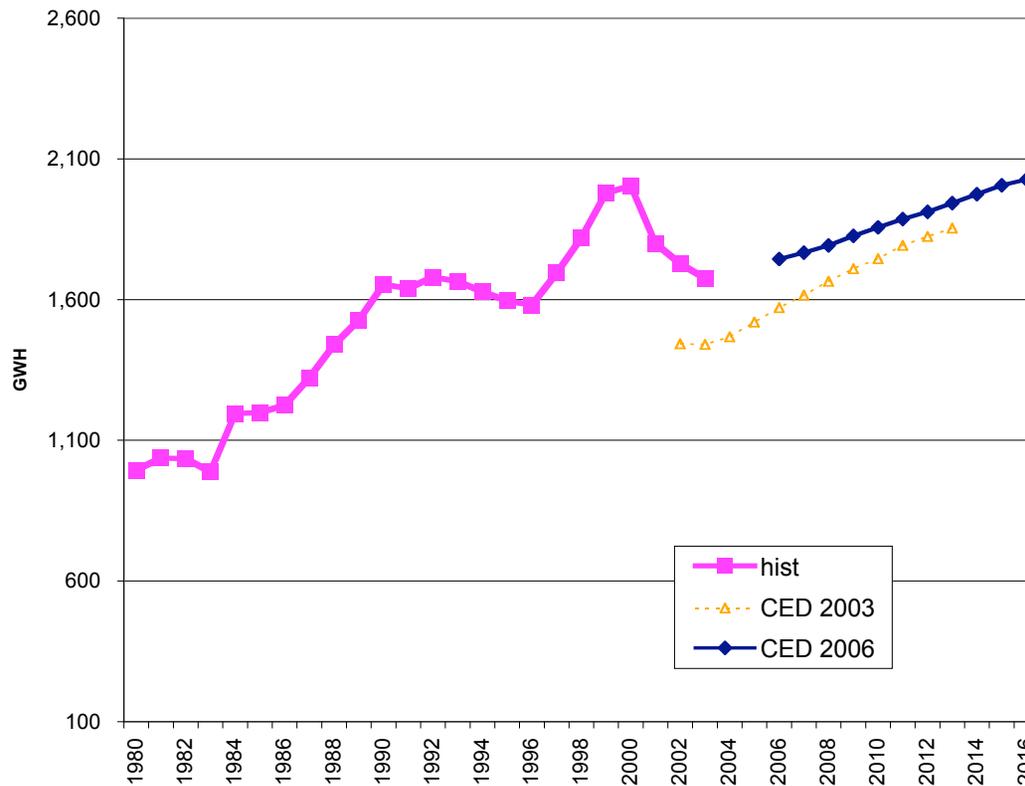
SDG&E Planning Area Commercial Floorspace



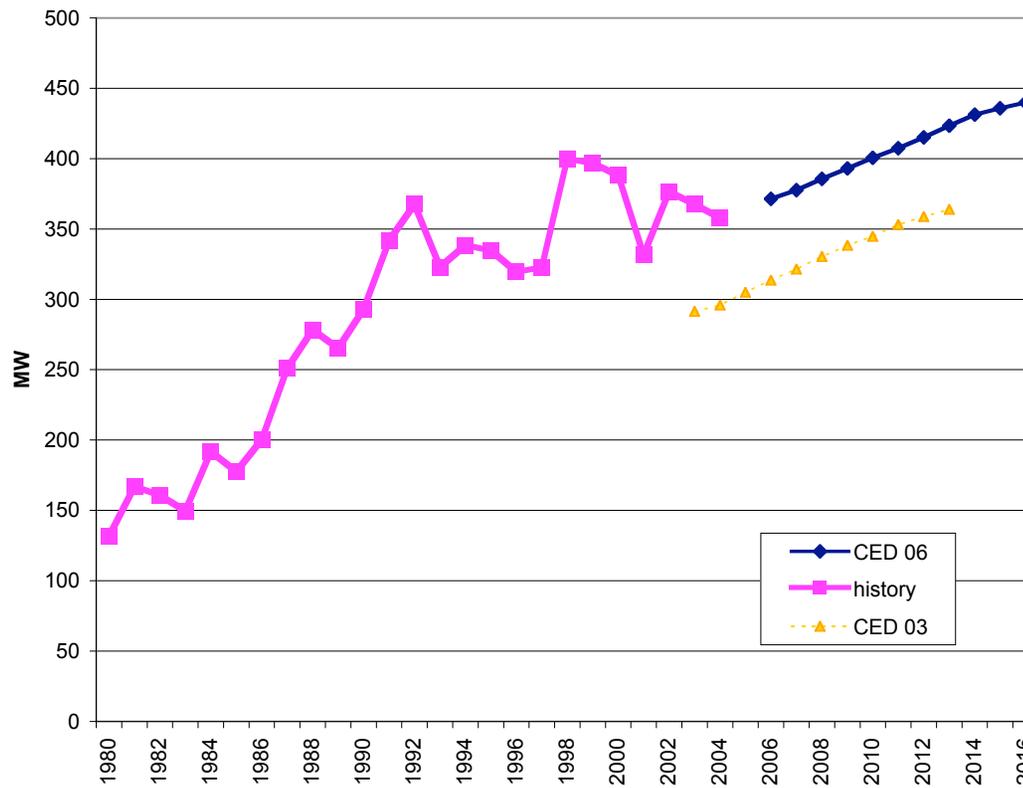
SDG&E Planning Area Commercial kWh/sq. ft.



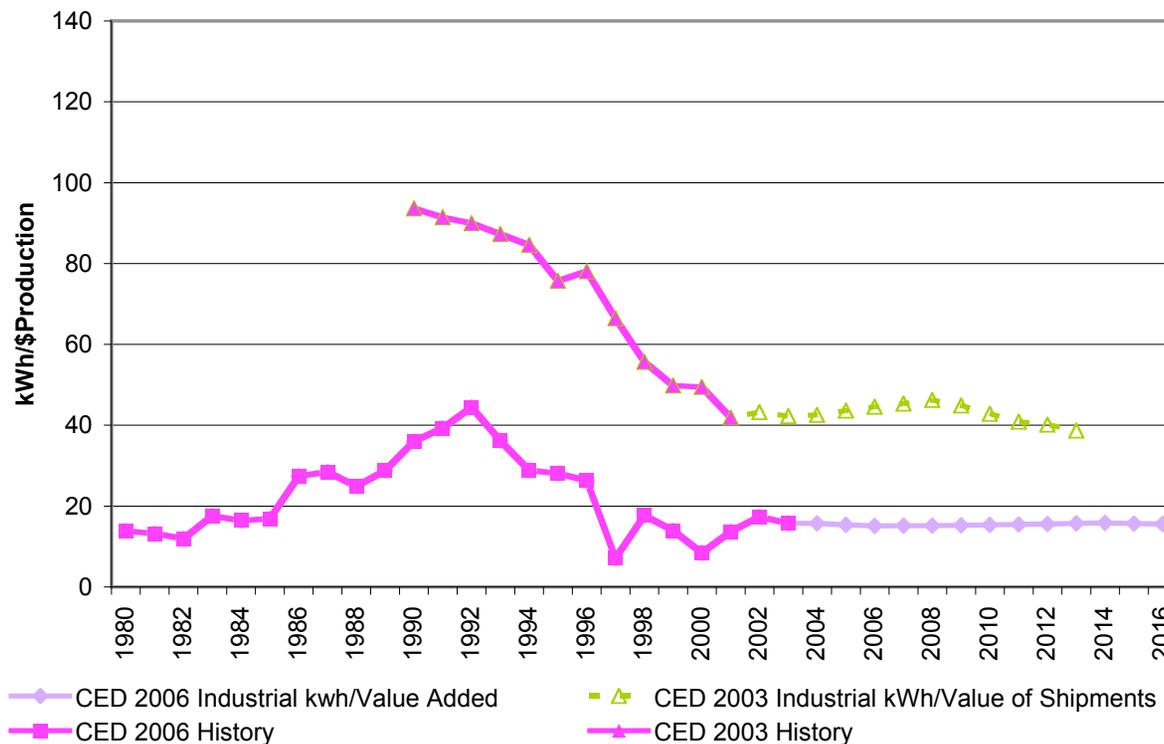
SDG&E Planning Area Industrial Consumption



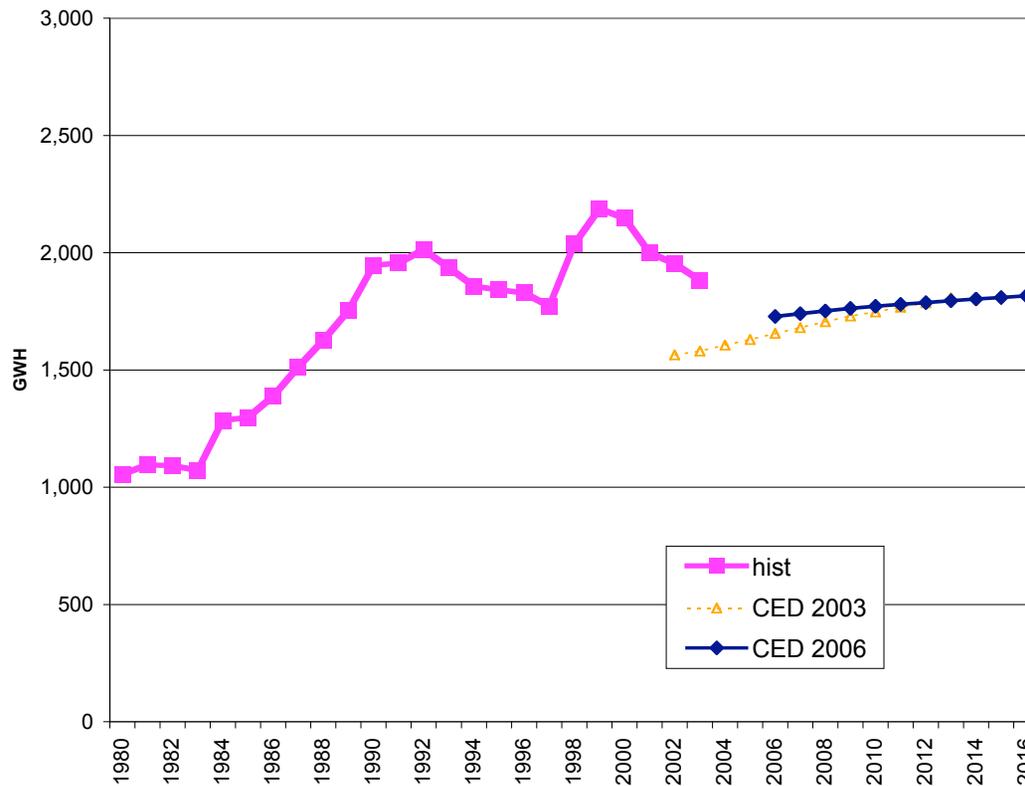
SDG&E Planning Area Industrial Peak



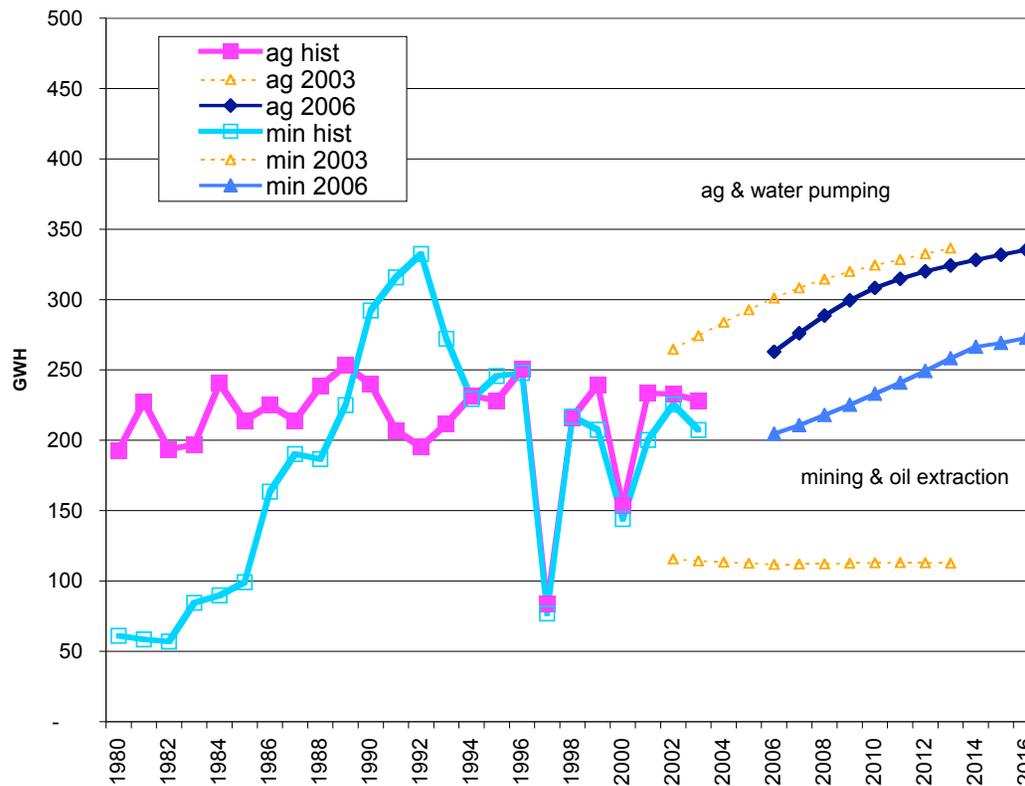
SDG&E Planning Area Industrial Use per Production Unit



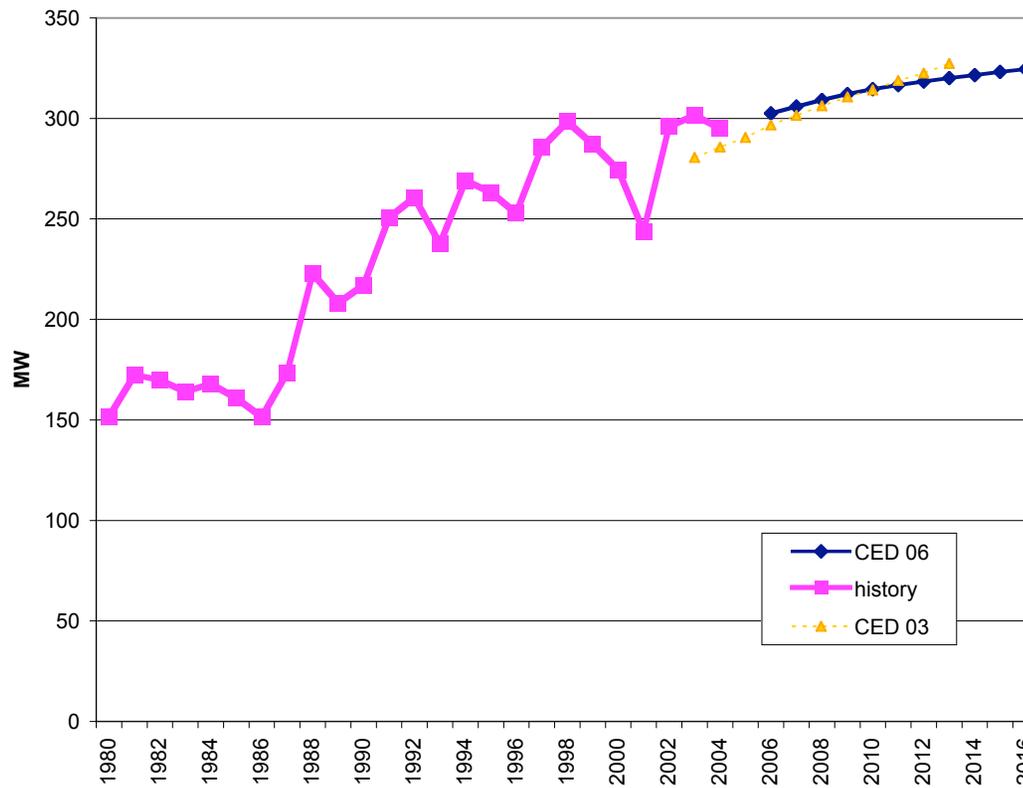
SDG&E Planning Area TCU Sector Consumption



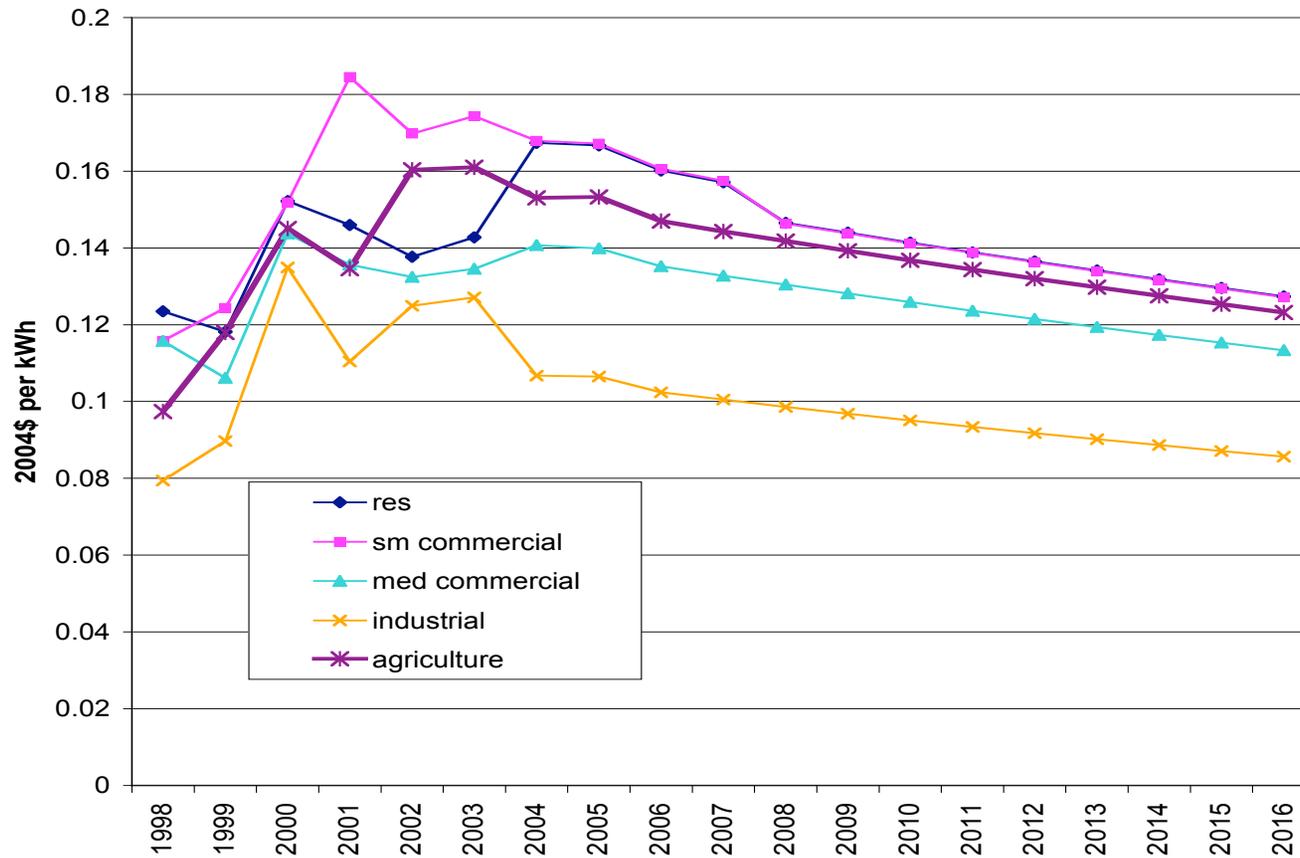
SDG&E Agriculture and Mining Consumption



SDG&E Planning Area Other Sectors Peak



SDG&E Planning Area Prices



SDG&E Forecast Comparison

- SDG&E's energy forecast is less than 3% percent higher than staff's in 2013; SDG&E's peak is 4% higher in 2013.
- Two-thirds of the difference is in residential demand.
- SDG&E assumes faster growth in the numbers of households (implying declining PPH), and faster income growth.
- In the commercial sector, they assume a higher level of floor space additions than staff.

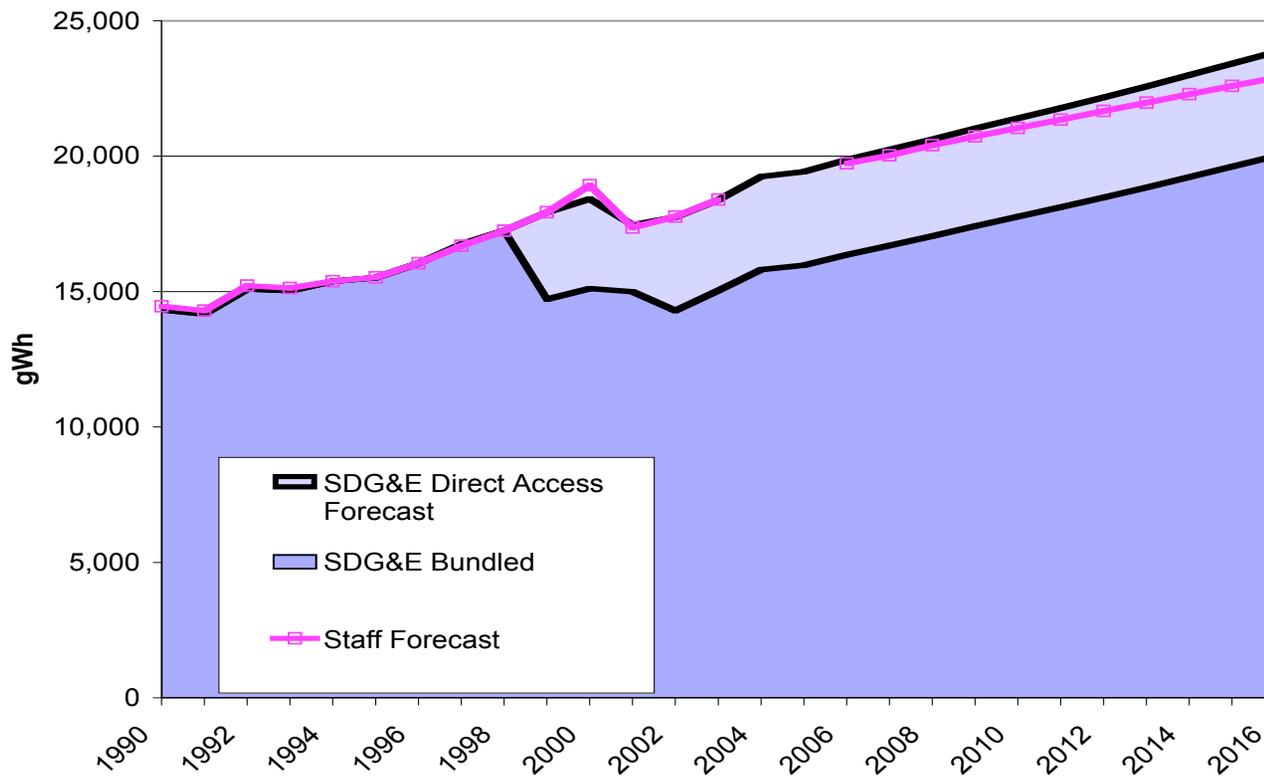


SDG&E Service Area Comparisons

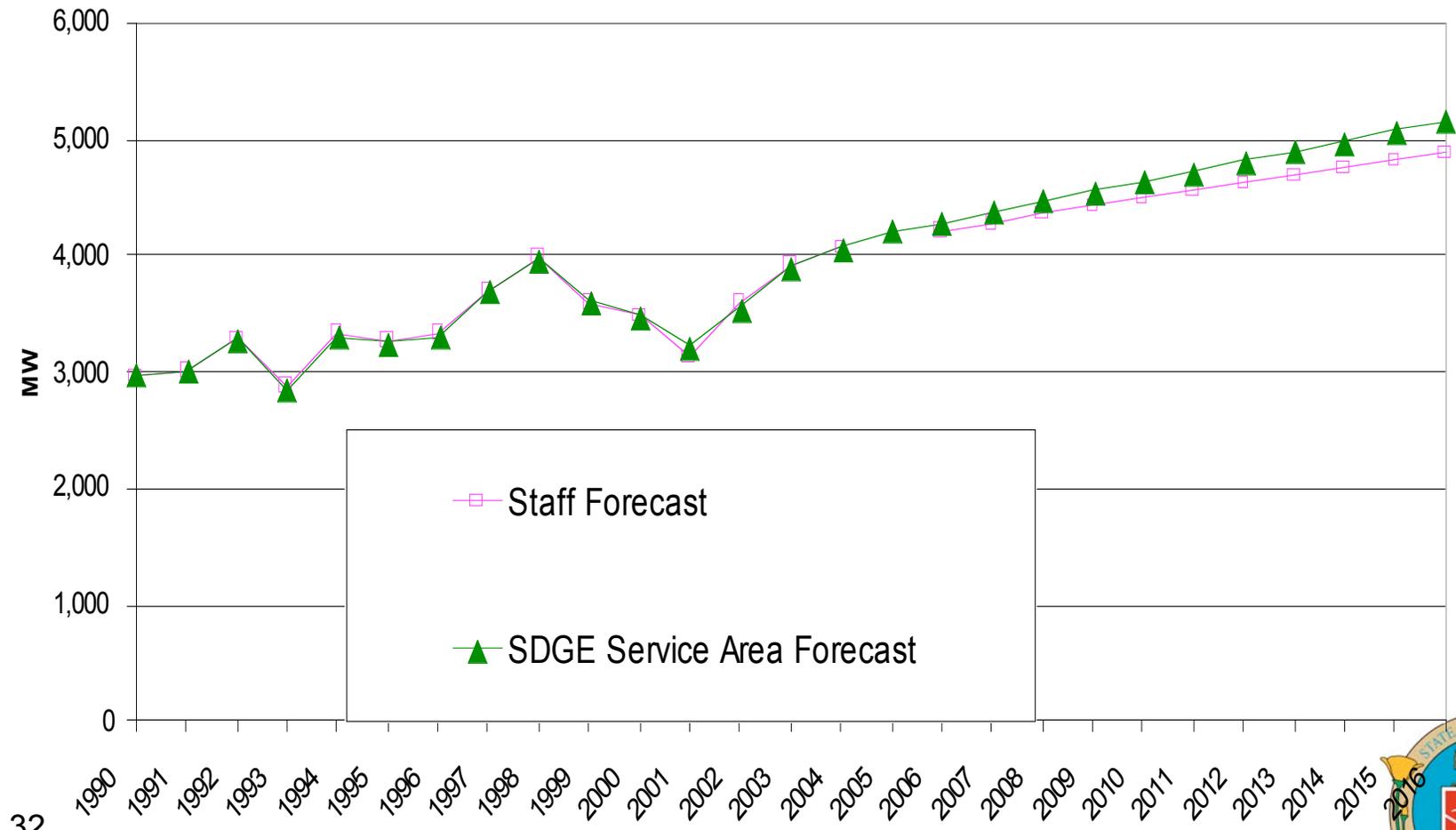
	Consumption (GWH)				Peak (MW)		
	SDG&E Service Area Forecast	Staff Forecast	% Difference		SDG&E Service Area Forecast	Staff Forecast	% Difference
1990	n/a	14,460			n/a	2,961	
2000	18,424	18,928	2.74%		3,485	3,472	-0.37%
2003	18,385	18,398	0.07%		3,902	3,921	0.48%
2008	20,626	20,405	-1.07%		4,468	4,350	-2.64%
2010	21,406	21,042	-1.70%		4,639	4,486	-3.30%
2013	22,575	21,981	-2.63%		4,889	4,686	-4.15%
2016	23,840	22,893	-3.97%		5,148	4,879	-5.22%
Annual Average Growth Rates							
1990-2000	n/a	2.73%			n/a	1.60%	
2000-2003	-0.07%	-0.94%			3.84%	4.14%	
2003-2008	2.33%	2.09%			2.75%	2.10%	
2003-2016	2.02%	1.70%			2.15%	1.70%	



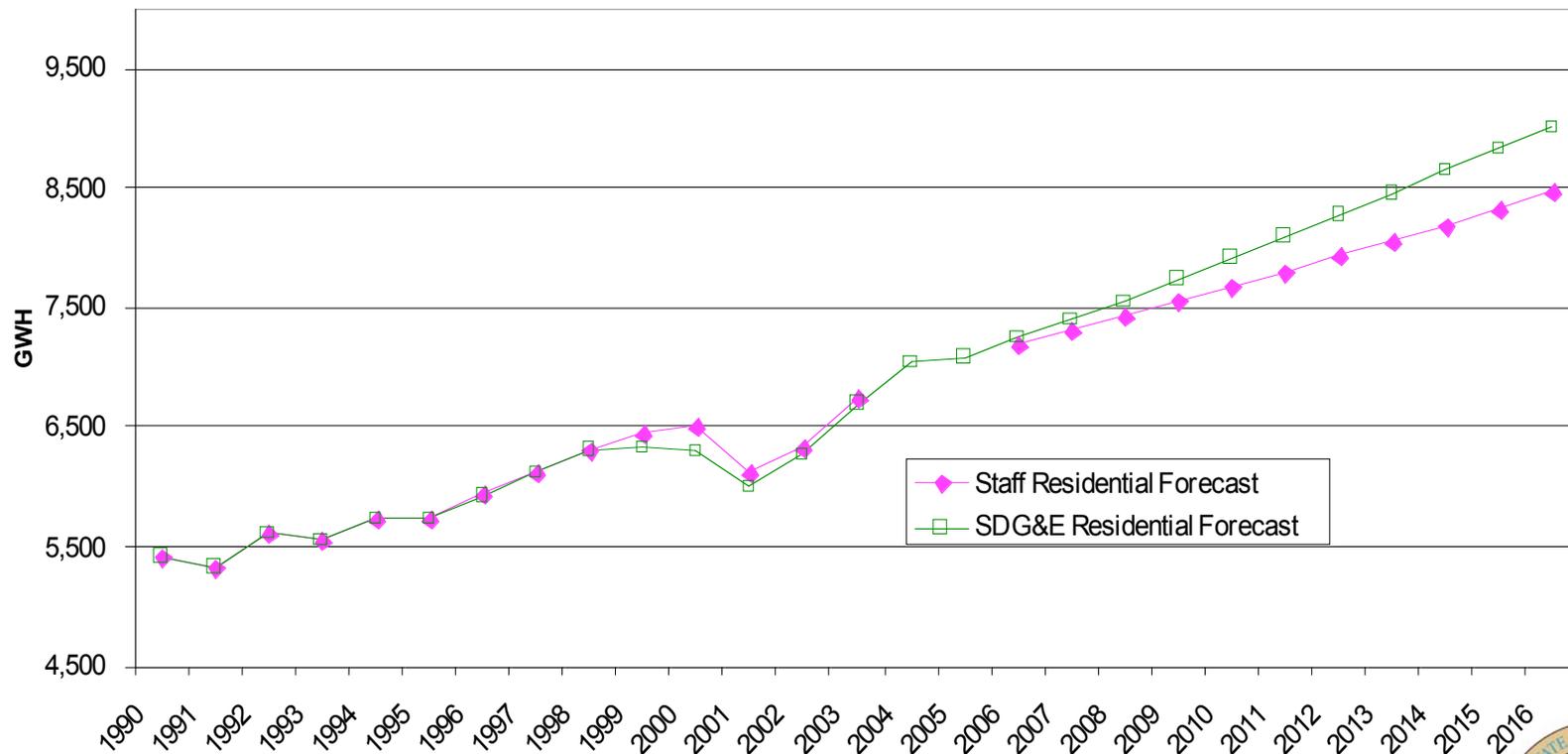
SDG&E Service Area Electricity Consumption



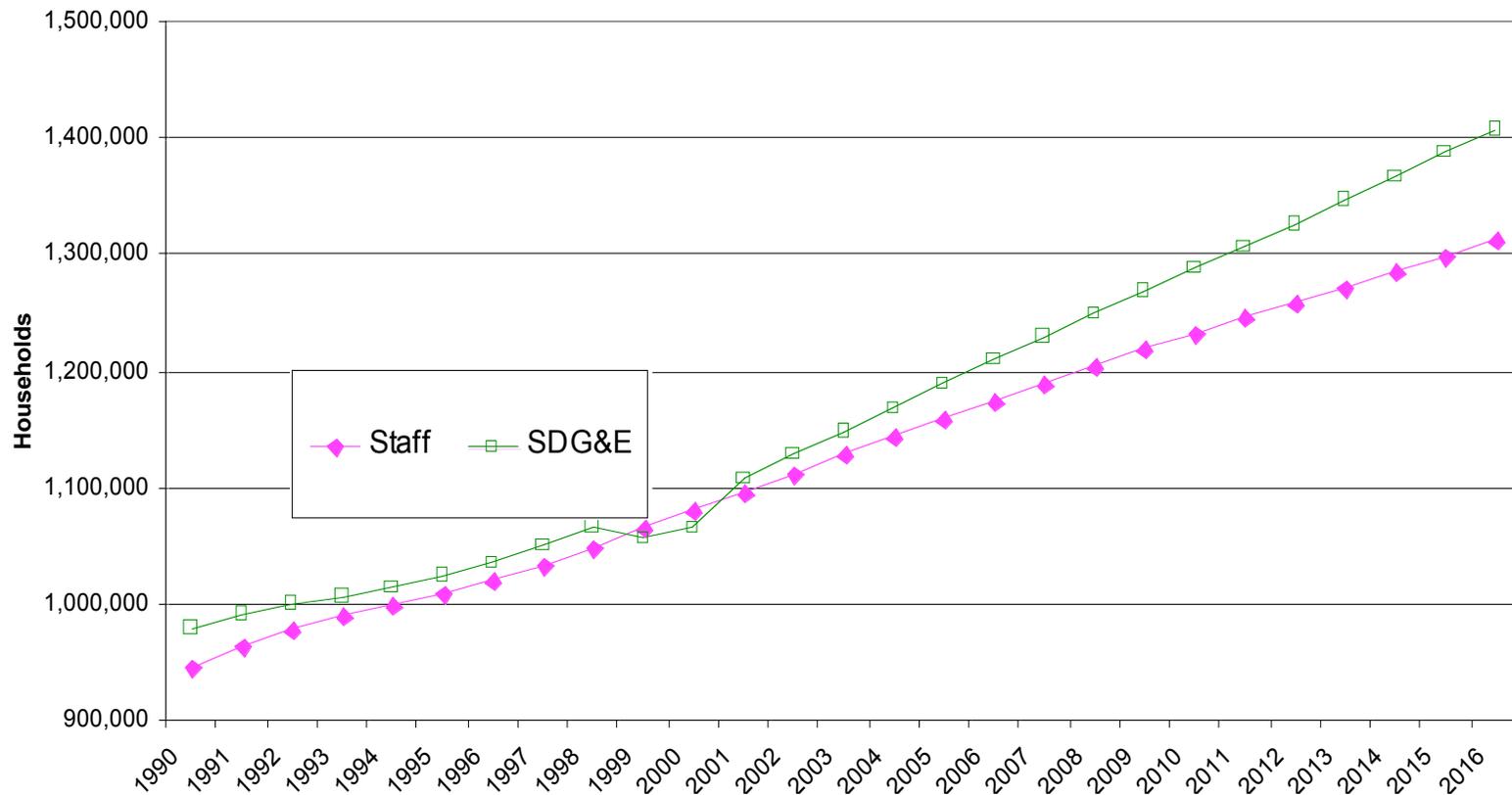
SDG&E Service Area Peak Comparison



SDG&E Service Area Residential Forecasts



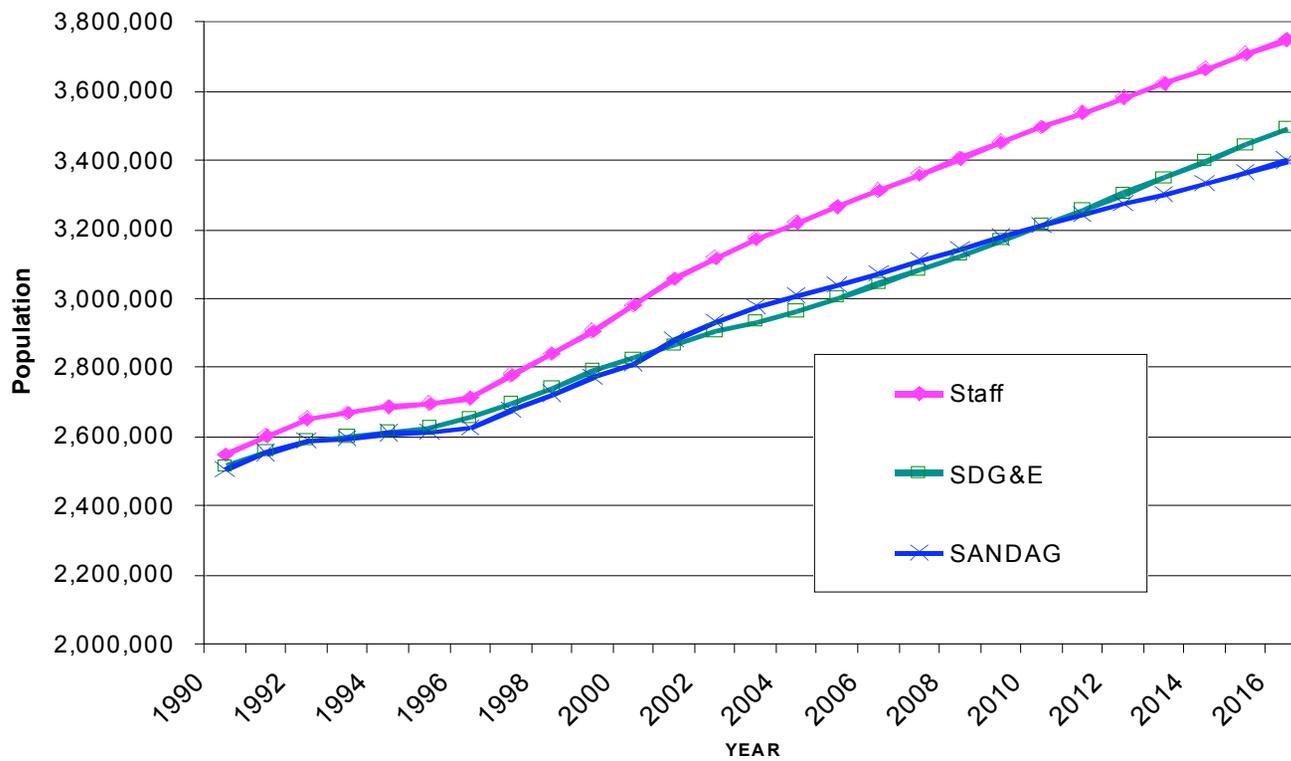
SDG&E Service Area Household Forecasts



Note: SDG&E is residential bundled customers



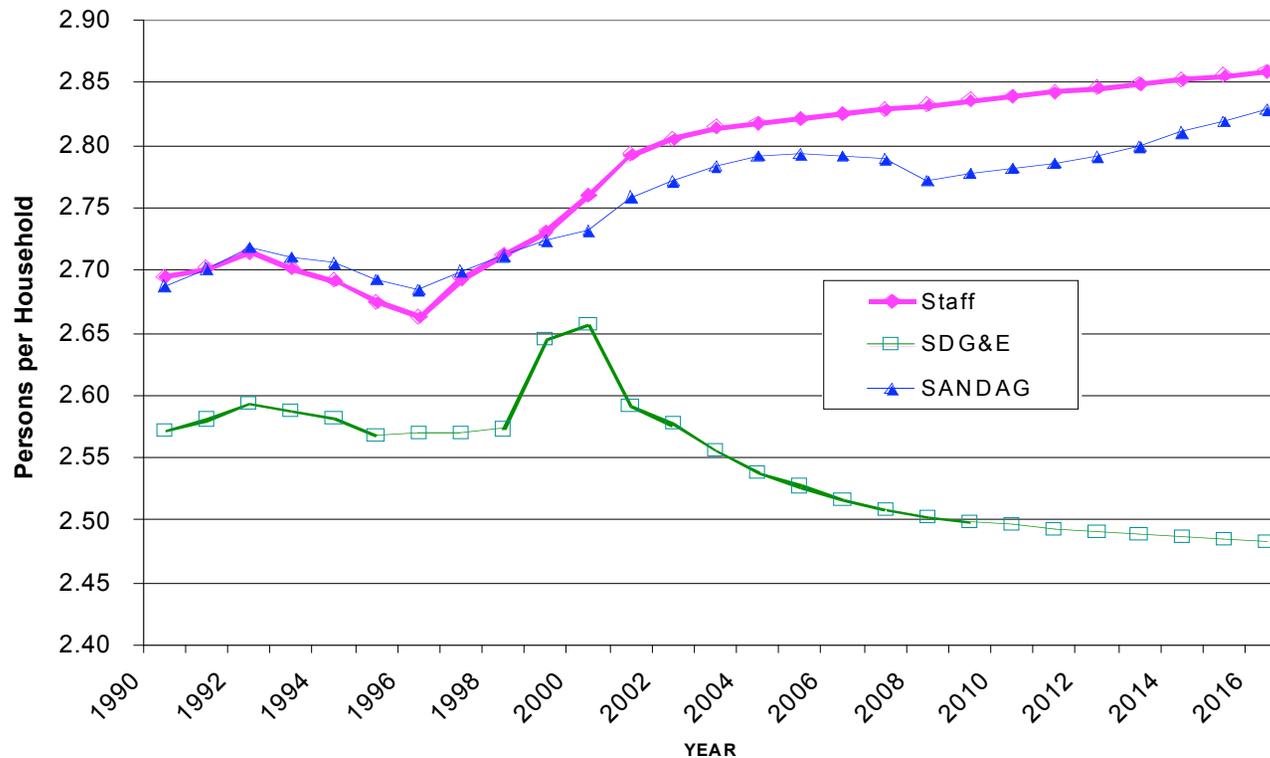
SDG&E Planning Area Population Projections



**Note: SDG&E and SANDAG are for San Diego County only
Staff includes portion of Orange County**



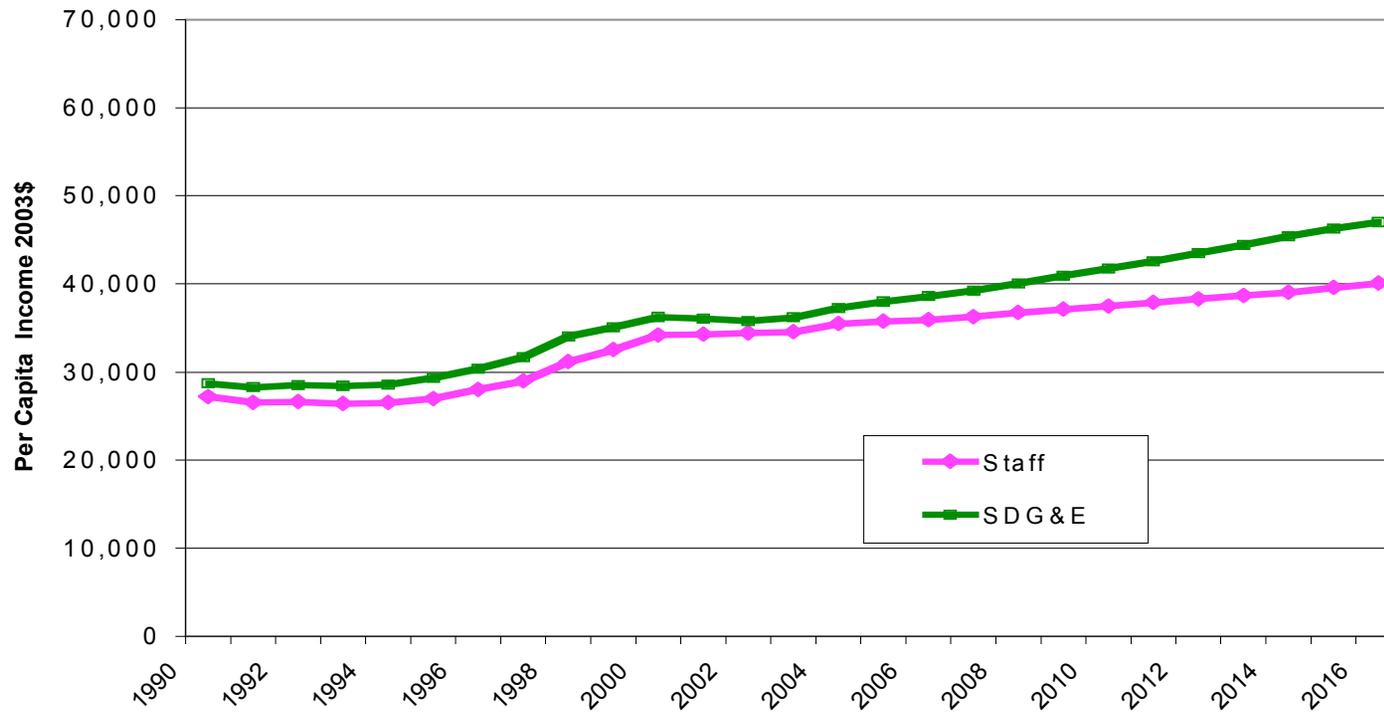
SDG&E Planning Area Household Size Comparison



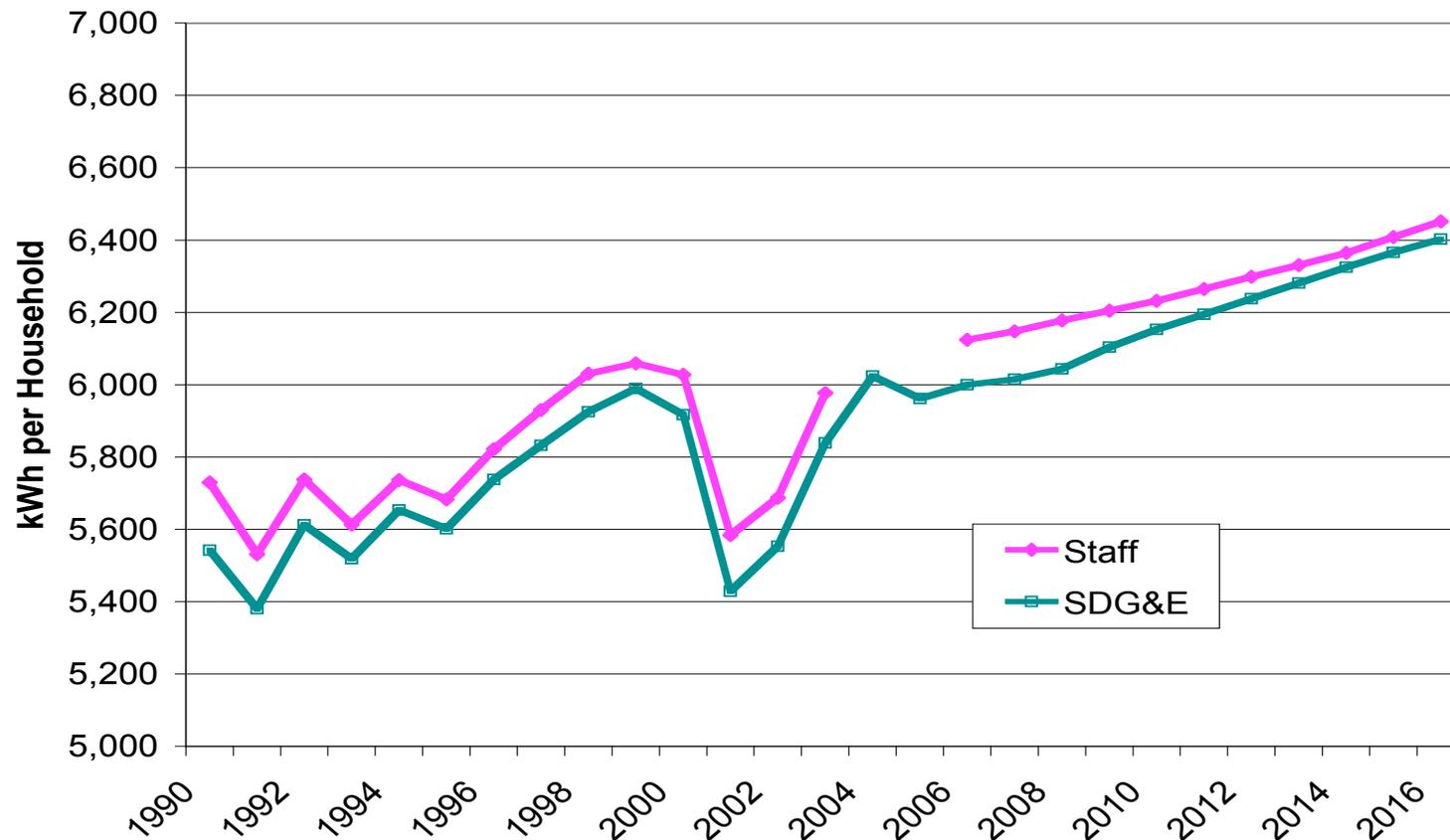
Note: SANDAG = San Diego County
SDG&E = San Diego County Population / SDG&E Residential Customers



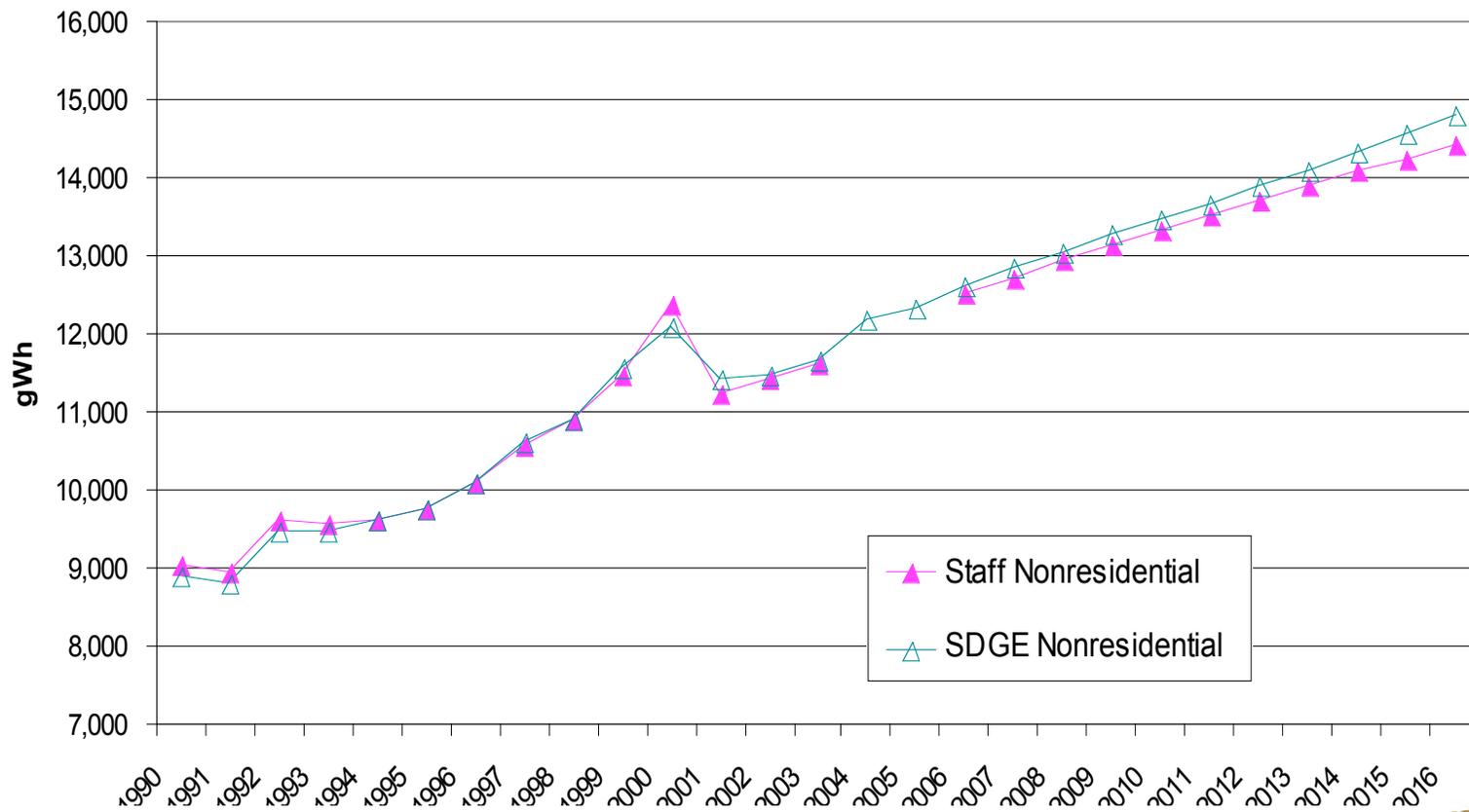
SDG&E per Capita Personal Income



SDG&E Service Area Residential Use per Household Forecasts



SDG&E Service Area Nonresidential Forecasts



SDG&E Service Area Floorspace Additions

